

FIG 1a

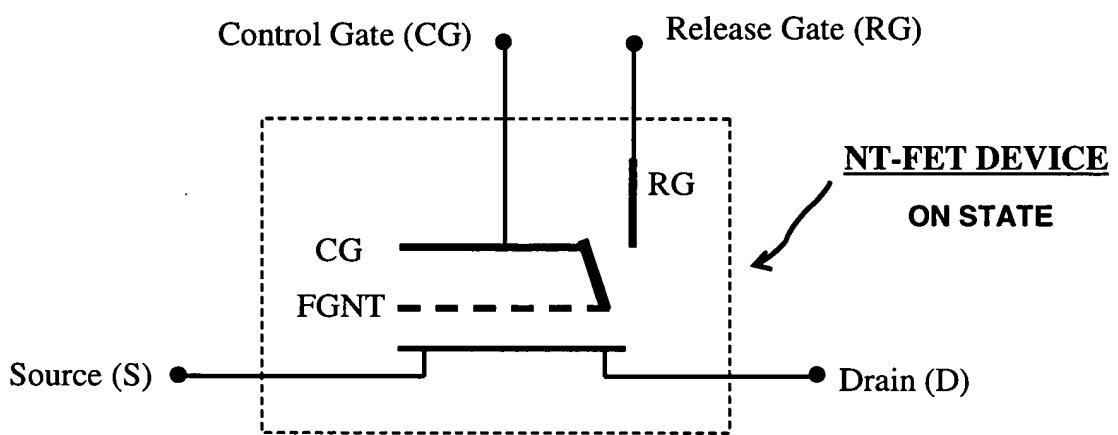


FIG 1b

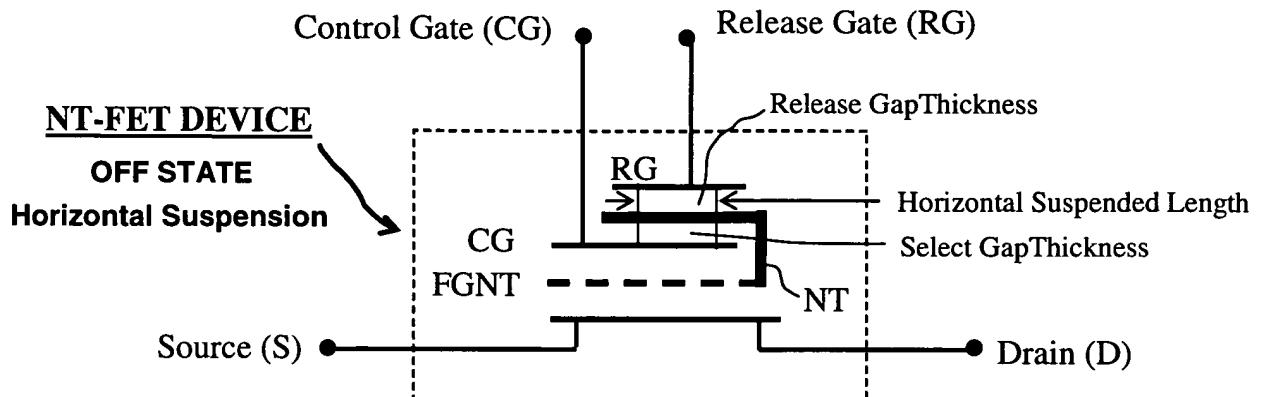


FIG 2a

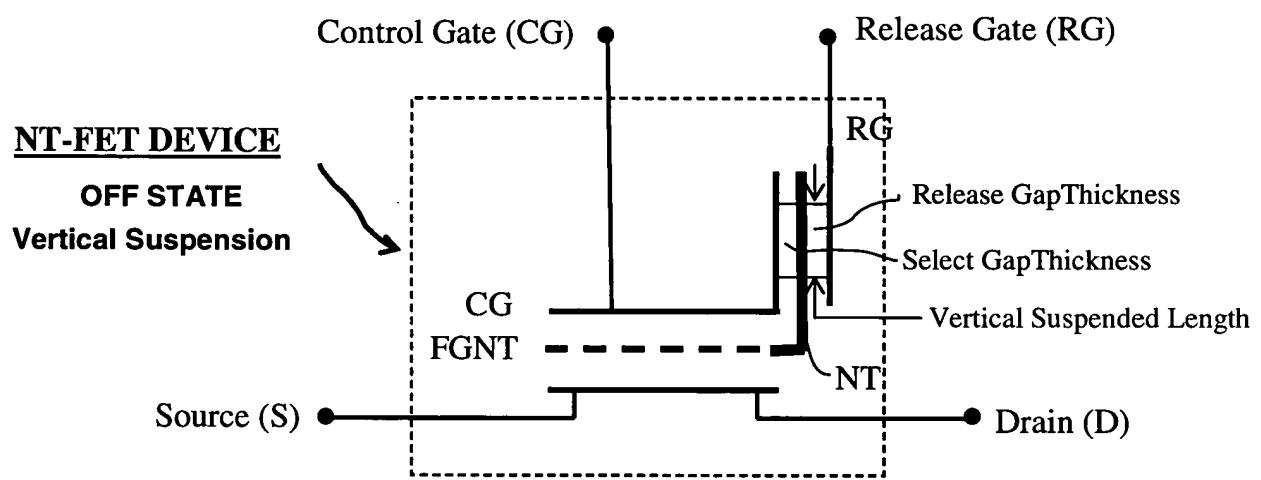
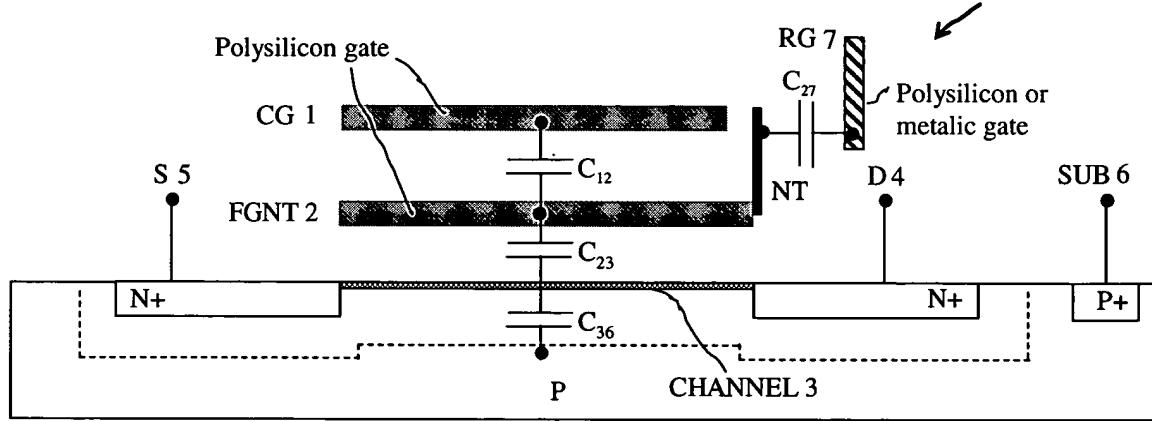
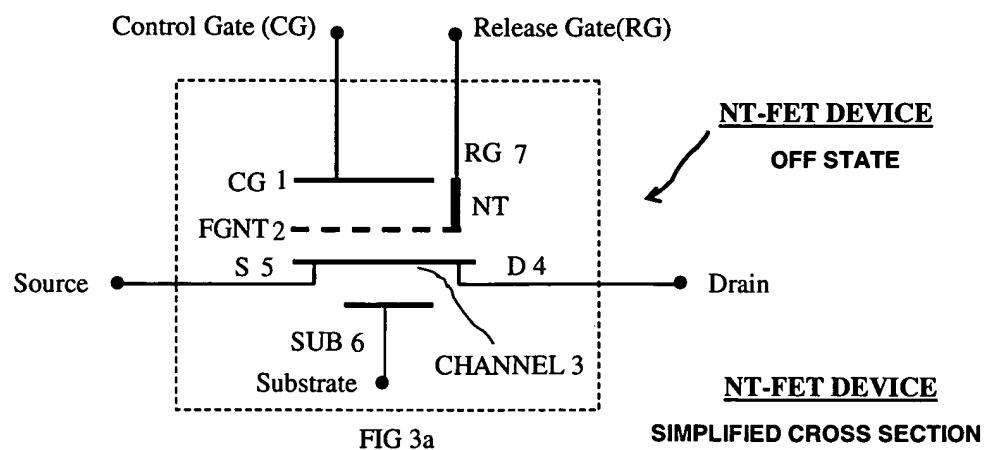
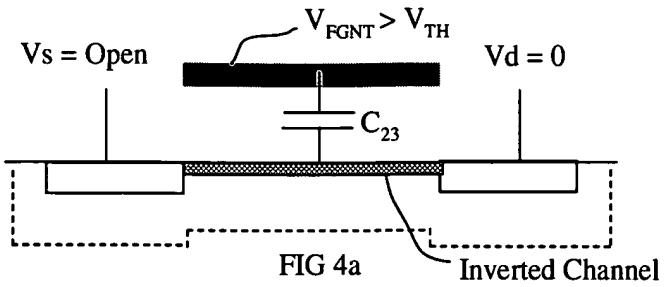


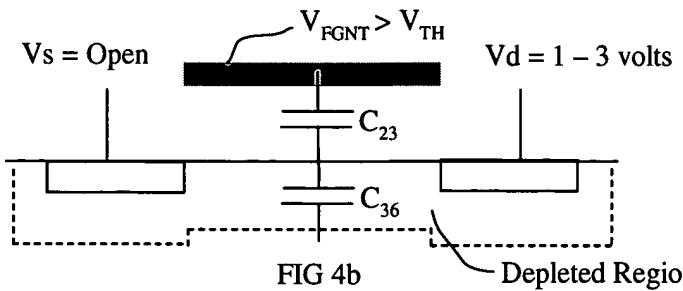
FIG 2b



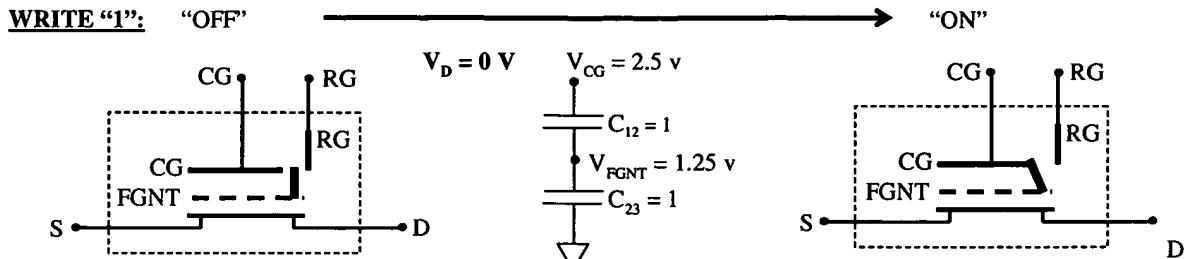
## CHANNEL REGION MODULATION



**Inverted Channel:** electrons at  $V = 0$  volts

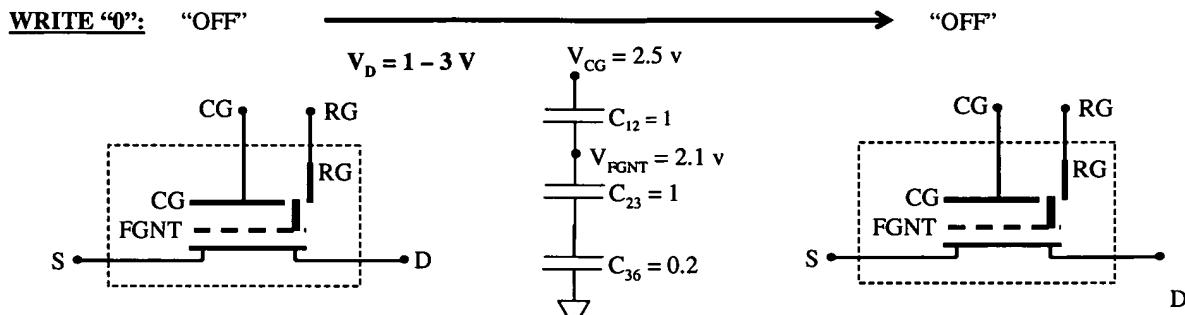


**Depleted Channel:** electrons flow to positive terminal



NT Select Voltage  $V_{NT\ SELECT} = V_{CG} - V_{FGNT} = 1.25 \text{ v}$

FIG 5a

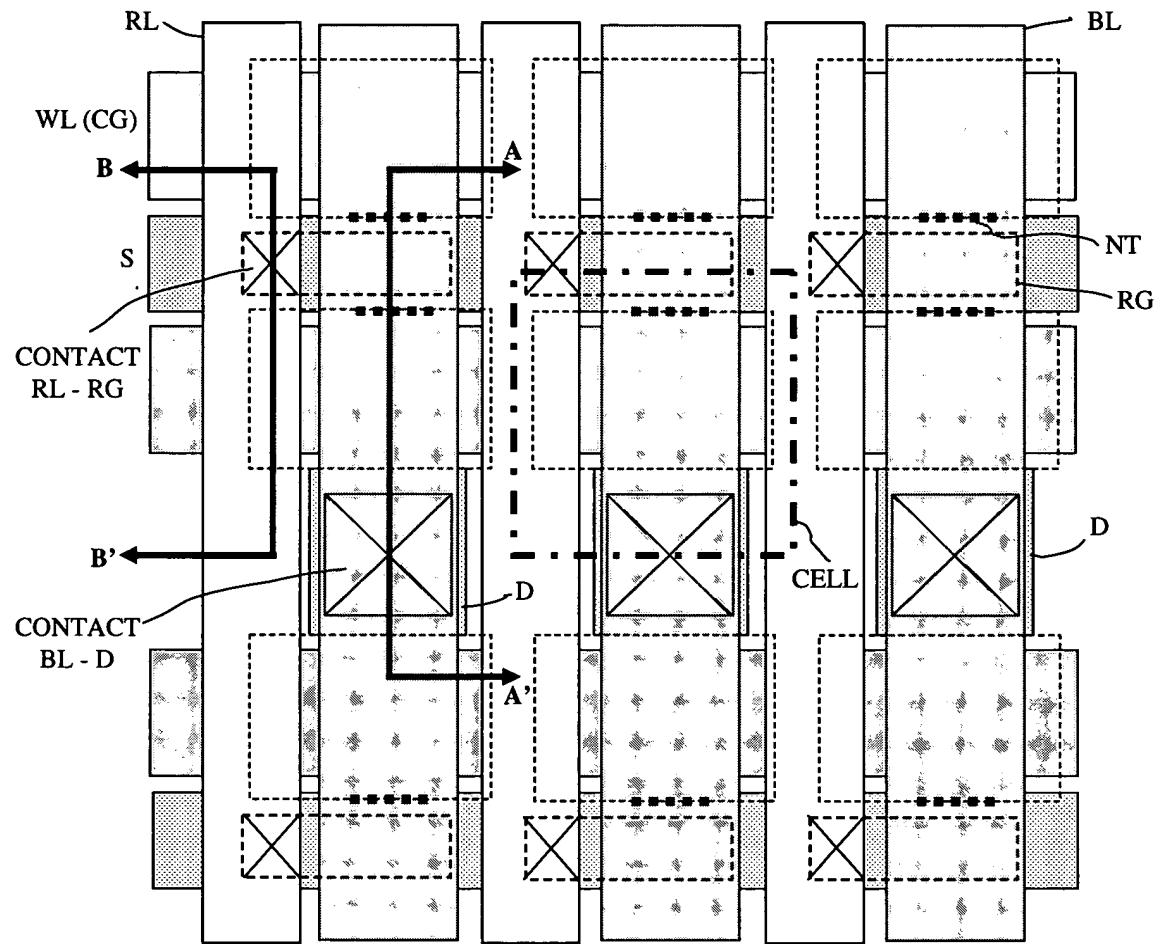


NT Select Voltage  $V_{NT\ SELECT} = V_{CG} - V_{FGNT} = 0.4 \text{ v}$

FIG 5b

NET: SELECT VOLTAGE THRESHOLD RANGE > 0.4 v & < 1.25 v

Figure 6



**Figure 7**

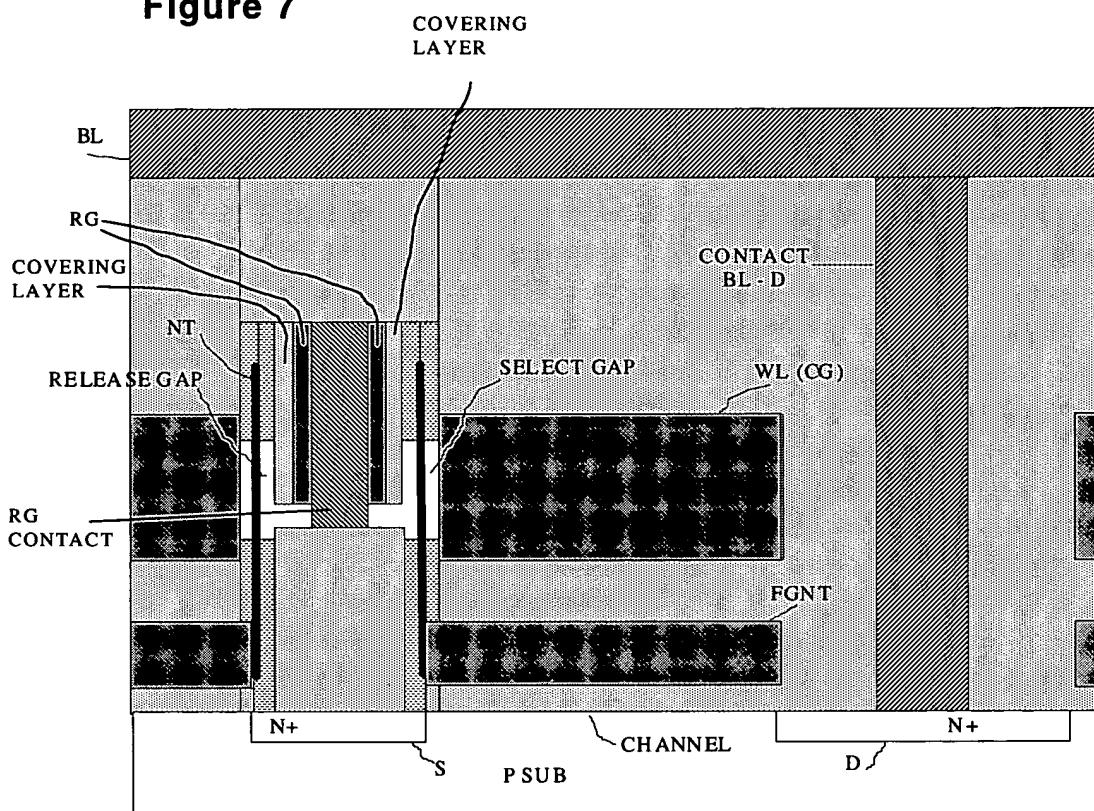


Figure 8

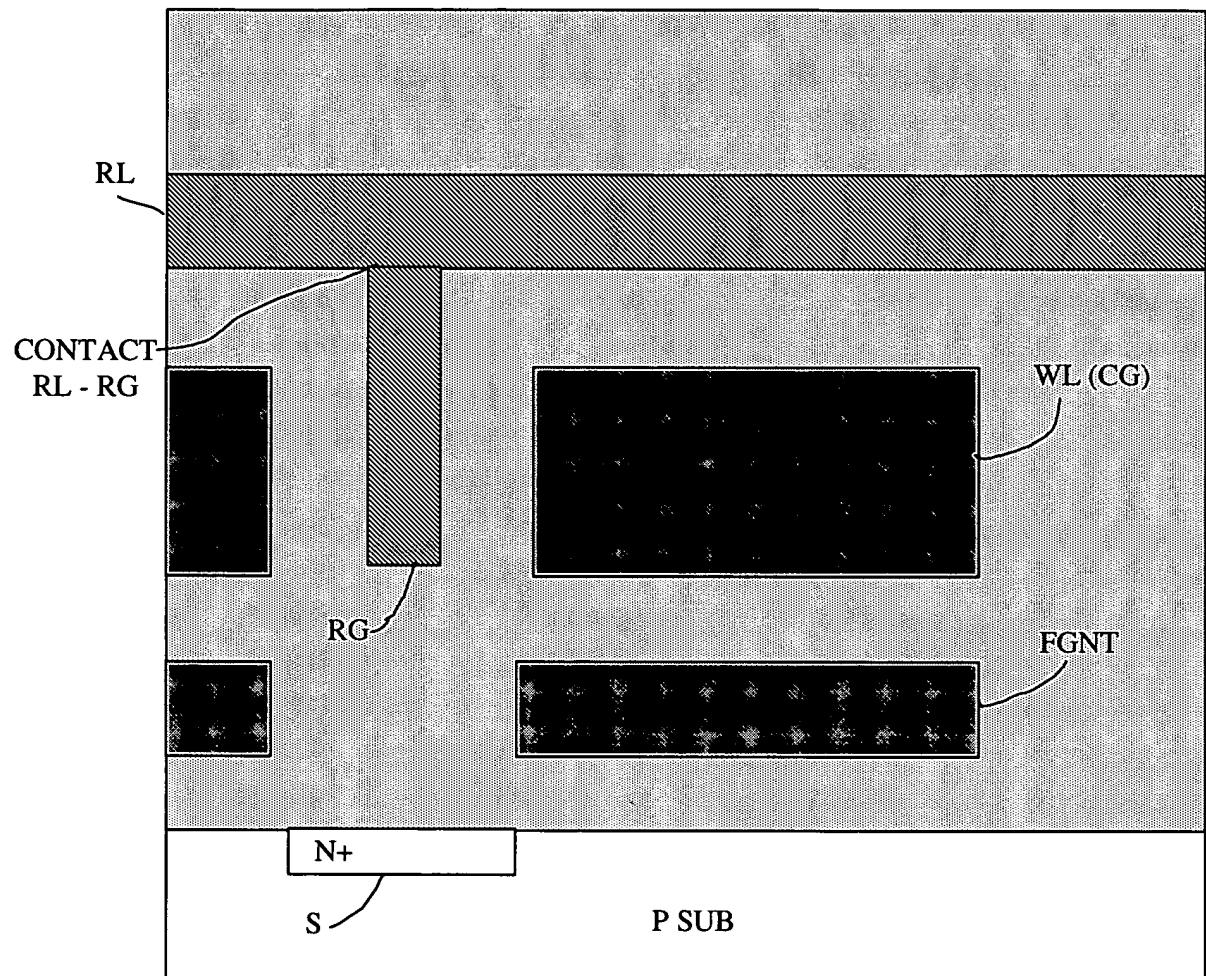


Figure 9

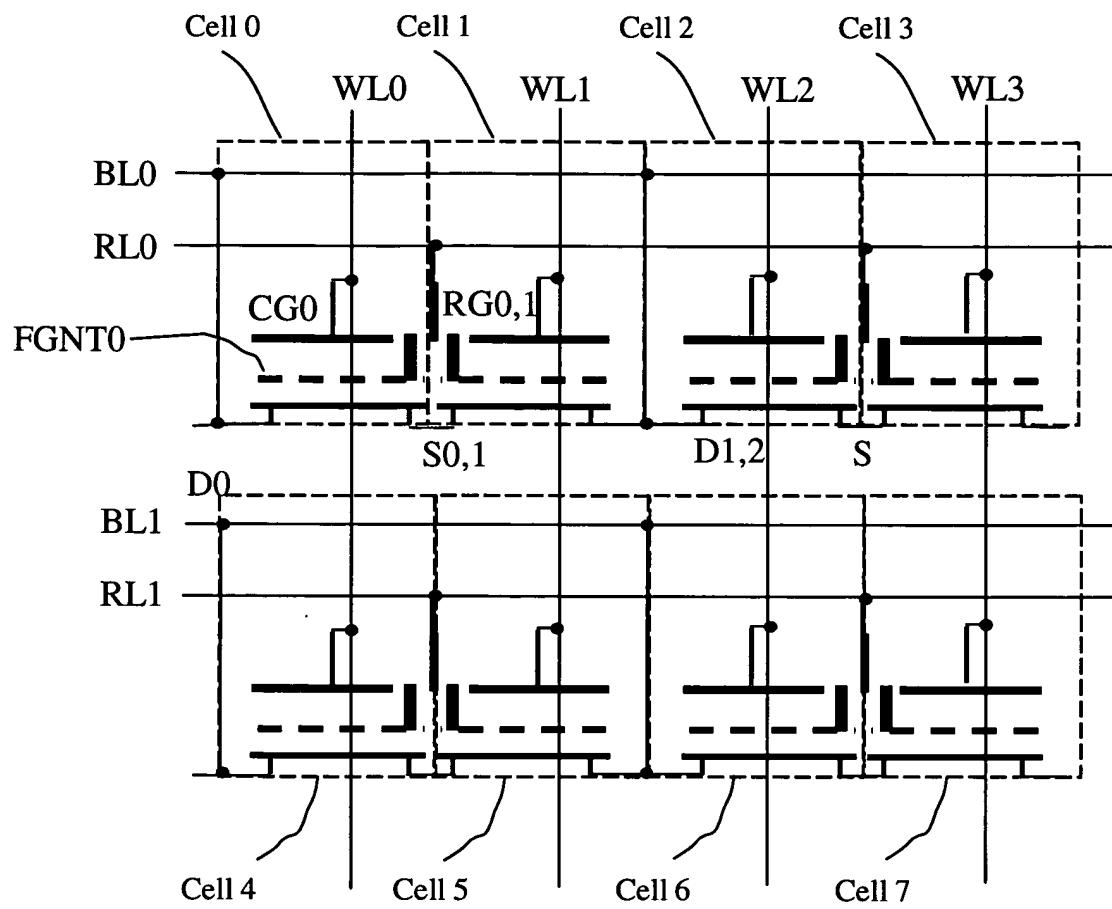


Figure 10

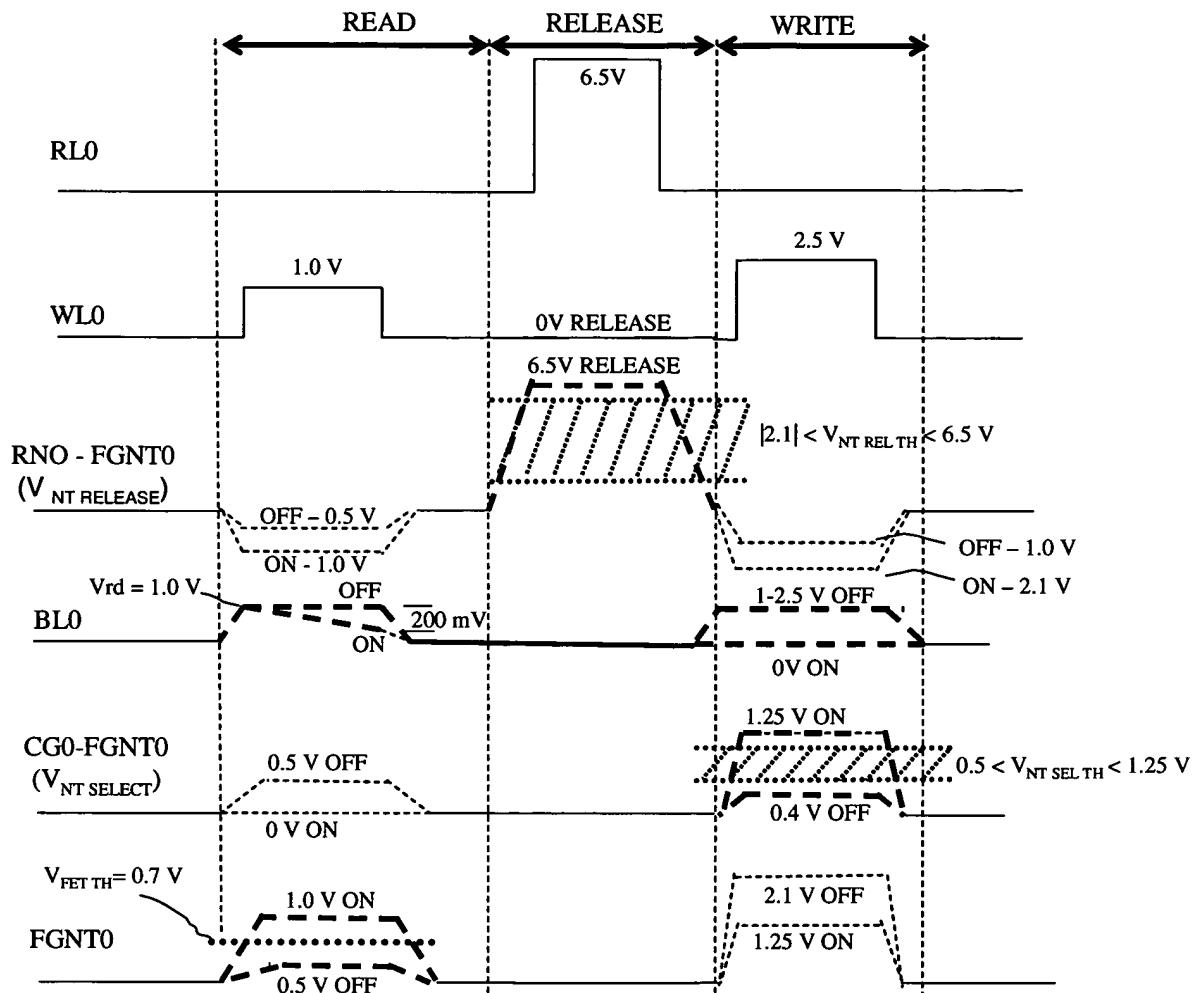


Figure 11

